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Experimentation with large mobile networks is notoriously tedious and expensive. We present the architecture and work-in-progress implementation of the m-ORBIT testbed, a mobility emulator using spatial switching, which facilitates mobile system experiments with 802.11a/b/g wireless network interfaces. The emulator does not require any physically moving parts---it emulates mobility by switching over an array of 128 spatially distributed radios. Instead of using hardware antenna switches, we impl ...

Keywords: mobility emulation, noise injection, spatial switching, testbed

3 Wireless amd Mobile Networks Performance: EMWIN: emulating a mobile wireless network using a wired network
Pei Zheng, Lionel M. Ni
September 2002 **Proceedings of the 5th ACM international workshop on Wireless mobile multimedia**
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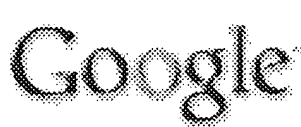Kishore Ramachandran, Sanjit Kaul, Suhas Mathur, Marco Gruteser, Ivan Seskar
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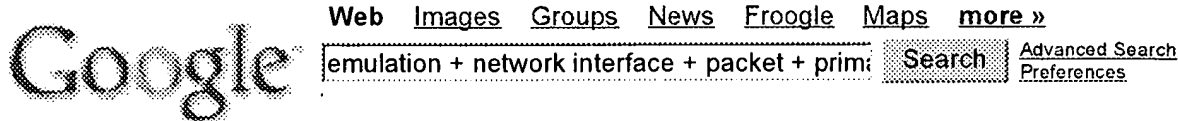
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